

ENGINEERING CHANGE NOTICE
DART AEROSPACE LTD

| | | | | |
|--------------------------|-------------------|------------------------|------------------------|---------------------------|
| Date: 08.06.03 | Job No.: D206-667 | ADR Yes/No: N | ADR Date: 08.06.03 | ECN #: 1198 |
| Product Name: Crosstubes | | Created By: <i>jkj</i> | Approved By: <i>mp</i> | General Manager Approval: |
| | | Checked By: <i>jkj</i> | | |

| Distribution | Reqd | Resp | Received |
|------------------------------|------|-------|-----------------|
| Production Manager | Y | LL | <i>08.06.03</i> |
| Production Engineering Coord | Y | EC/DD | <i>08.06.03</i> |
| Director Quality Assurance | | | |
| Customer Order Processing | | | |

| Distribution | Reqd | Resp | Received |
|----------------------------|------|-------|-----------------|
| Customer Technical Support | Y | DSTOW | <i>08.06.03</i> |
| Marketing | Y | SW | <i>08.06.03</i> |
| PROD Doc. CONTROL | Y | JLP | <i>08.06.03</i> |

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| Reason for Change: Improve fit of crosstube supports |
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| Documents Affected: DSI 9415 Rev. A |
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| # | Engineering Actions | Reqd | Resp | Notes | Complete |
|----|--|------|------------|--------------|----------------------------|
| 1 | Required Documents/Drawings Under Review | Y | PH | | <i>08.06.03 <i>jkj</i></i> |
| 2 | Update Blue/Pink/DSI Folder and Electronic Files | Y | KJ | See attached | <i>08.06.03 <i>jkj</i></i> |
| 3 | Update D-Part/M-Drawing/DSI/DEO Master Binders | Y | KJ | | <i>08.06.03 <i>jkj</i></i> |
| 4 | Update Grey Project Binder | N | | | <i>08.06.03 <i>jkj</i></i> |
| 5 | Move Electronic Files | Y | KJ | | <i>08.06.03 <i>jkj</i></i> |
| 6 | Update Master Document List (MDL) <i>Rev. F</i> | Y | KJ | | <i>08.06.03 <i>jkj</i></i> |
| 7 | Update Document Record (DR) <i>Rev. M</i> | Y | KJ | | <i>08.06.03 <i>jkj</i></i> |
| 8 | Create/Update Change Record Form | Y | KJ | See attached | <i>08.06.03 <i>jkj</i></i> |
| 9 | Create/Update PPP's | Y | KJ | See #8 | <i>08.06.03 <i>jkj</i></i> |
| 10 | Update Controlled PDF Files | Y | KJ | | <i>08.06.03 <i>jkj</i></i> |
| 11 | Notify TC/FAA of Change | N | | | |
| 12 | Update QSI 021 and/or STC Approval List | N | | | |
| 13 | Update Product Development Summary | N | | | |
| 14 | Update Accpac Database | Y | KJ | See attached | <i>08.06.03 <i>jkj</i></i> |
| 15 | Update Access (ARC) Database | Y | KJ | See #14 | <i>08.06.03 <i>jkj</i></i> |
| 16 | Update/Verify ARC | Y | KJ | See #14 | <i>08.06.03 <i>jkj</i></i> |
| 17 | Update Paperwork Kits in Production | Y | <i>JKD</i> | See attached | <i>See ATTACHED</i> |
| 18 | Update Qpulse/Laminated Dwgs | N | <i>jkj</i> | As required | |
| 19 | Update Product Compatability Matrix | N | | | |
| 20 | Create Eurocopter Form (FEE) | N | | | |
| 21 | | | | | |

| # | Production Actions | Reqd | Resp | Notes | Complete |
|----|--|------|------------|--------------|---------------------|
| 22 | Create/Update Coss IPP/BOM | Y | EC/DD | | <i>See ATTACHED</i> |
| 23 | Update FAI Sheets | N | | | |
| 24 | Create/Update CNC Programs | N | | | |
| 25 | Create/Update Tooling | N | | | |
| 26 | Red Tag Stock (Specify) | Y | LL | See attached | <i>See ATTACHED</i> |
| 27 | Rework/Scrap Current Production and/or Stock | Y | LL | See attached | <i>See ATTACHED</i> |
| 28 | Update Paperwork Kits in Stock | Y | <i>JKD</i> | See attached | <i>ITEM 17 TOO</i> |
| 29 | Create/Update MPP | N | | | |
| 30 | | | | | |

| # | Quality Assurance Actions | Reqd | Resp | Notes | Complete |
|----|---------------------------|------|------|-------|----------|
| 31 | Notify Previous Customers | N | | | |
| 32 | Notify Eurocopter France | N | | | |
| 33 | | | | | |

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| Description / Action: See attached |
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Additional ECN # 1198 Notes:

2) Add DSI 9415 to Blue/Pink file.

8) Change Numbers are now:

| Installation | CHG number |
|--------------|------------|
| D206-667-101 | 003 |
| D206-667-201 | 003 |
| D206-667-103 | 003 |
| D206-667-203 | 003 |
| D407-667-105 | 003 |
| | |
| DSI 9415-011 | 001 |
| DSI 9415-013 | 001 |

14) - New kits are DSI 9415-011 and DSI 9415-013. *CHG 001*
- New Part Numbers are D3595-075-395 and D3595-075-450

17) Add DSI 9415 to kits that have been re-worked to DSI 9415

22) Update Estimates to:

- Update CHG #
- Remove abrasion strips (per DSI 9415 Rev. A)
- Add Rubber Cushions (per DSI 9415 Rev. A)
- **NOTE:** Drawings D206-667-XXX and D407-667-XXX will be updated. Attach DSI 9415 as temporary solution

26) Red tag stock that hasn't been re-worked yet

27) Rework all stock and in production I.A.W. DSI 9415

28) Add DSI 9415 to kits that have been re-worked to DSI 9415

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DART AEROSPACE LTD

MPP

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|--------------------------|----------|-----------------------|---------------------------|--------|------|
| Date: 08.06.03 | Job No.: | ADR Yes/No: N | ADR Date: | ECN #: | 1198 |
| Product No.: D206-667 | | Created By: <i>ef</i> | Approved By: <i>NP</i> | | |
| Product Name: Crosstubes | | Checked By: <i>IP</i> | General Manager Approval: | | |

| Distribution | Reqd | Resp | Received |
|------------------------------|------|-------|----------|
| Production Manager | Y | LL | |
| Production Engineering Coord | Y | EC/DD | I |
| Director Quality Assurance | | | |
| Customer Order Processing | | | |

| Distribution | Reqd | Resp | Received |
|----------------------------|------|-------|----------|
| Customer Technical Support | Y | DSTOW | |
| Marketing | Y | SW | |
| PROD DOC. CONTROL | Y | JLP | |

Reason for Change:
Improve fit of crosstube supports

Documents Affected:

DSI 9415 Rev. A

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| 1 | Required Documents/Drawings Under Review | Y | PH | | 08.06.03 <i>Re</i> |
| 2 | Update Blue/Pink/DSI Folder and Electronic Files | Y | KJ | See attached | 08.06.03 <i>Re</i> |
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| 4 | Update Grey Project Binder | N | | | |
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| 7 | Update Document Record (DR) <i>Rev. M</i> | Y | KJ | | 08.06.03 <i>Re</i> |
| 8 | Create/Update Change Record Form | | KJ | See attached | 08.06.03 <i>Re</i> |
| 9 | Create/Update PPP's | Y | KJ | See #8 | |
| 10 | Update Controlled PDF Files | Y | KJ | | 08.06.03 <i>Re</i> |
| 11 | Notify TC/FAA of Change | N | | | |
| 12 | Update QSI 021 and/or STC Approval List | N | | | |
| 13 | Update Product Development Summary | N | | | |
| 14 | Update Accpac Database | Y | KJ | See attached | 08.06.03 <i>Re</i> |
| 15 | Update Access (ARC) Database | Y | KJ | See #14 | 08.06.03 <i>Re</i> |
| 16 | Update/Verify ARC | Y | KJ | See #14 | 08.06.03 <i>Re</i> |
| 17 | Update Paperwork Kits in Production | Y | JLP | See attached | |
| 18 | Update Qpulse/Laminated Dwgs | Y | KJ | As required | |
| 19 | Update Product Compatability Matrix | N | | | |
| 20 | Create Eurocopter Form (FEE) | N | | | |
| 21 | | | | | |

| # | Production Actions | Reqd | Resp | Notes | Complete |
|----|--|------|-------|--------------------------|-----------|
| 22 | Create/Update Coss IPP/BOM | Y | EC/DD | | 108/06/03 |
| 23 | Update FAI Sheets | N | | | |
| 24 | Create/Update CNC Programs | N | | | |
| 25 | Create/Update Tooling | N | | | |
| 26 | Red Tag Stock (Specify) | Y | LL | See attached | |
| 27 | Rework/Scrap Current Production and/or Stock | Y | LL | See attached | |
| 28 | Update Paperwork Kits in Stock | Y | KJ | See attached ITEM 17 TOO | |
| 29 | Create/Update MPP | N | | | |
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| # | Quality Assurance Actions | Reqd | Resp | Notes | Complete |
|----|---------------------------|------|------|-------|----------|
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| 32 | Notify Eurocopter France | N | | | |
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Description / Action:

See attached

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| Product No.: D206-667 | | Created By: <i>PF</i> | Approved By: <i>MP</i> | | |
| Product Name: Crosstubes | | Checked By: <i>LP</i> | General Manager Approval: | | |

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| Director Quality Assurance | | | |
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| Marketing | Y | SW | |
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DSI 9415 Rev. A

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| 24 | Create/Update CNC Programs | N | | | |
| 25 | Create/Update Tooling | N | | | |
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| 27 | Rework/Scrap Current Production and/or Stock | Y | LL | See attached | |
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| 29 | Create/Update MPP | N | | | |
| 30 | | | | | |

| # | Quality Assurance Actions | Reqd | Resp | Notes | Complete |
|----|---------------------------|------|------|-------|----------|
| 31 | Notify Previous Customers | N | | | |
| 32 | Notify Eurocopter France | N | | | |
| 33 | | | | | |

Description / Action:
See attached

Determined between Bill, Peter + David that this is only a product improvement.

Additional ECN # 1198 Notes:

2) Add DS1 9415 to Blue/Pink file.

8) Change Numbers are now:

| Installation | CHG number | MAIN | OFFS |
|--------------|------------|------|------|
| D206-667-101 | 003 | 7 | 3 |
| D206-667-201 | 003 | 4 | 3 |
| D206-667-103 | 003 | 9 | 5 |
| D206-667-203 | 003 | 8 | 4 |
| D407-667-105 | 003 | 1 | 3 |
| DSI 9415-011 | 001 | | |
| DSI 9415-013 | 001 | | |

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14) - New kits are DS1 9415-011 and DS1 9415-013. ~~CHG 001~~
 - New Part Numbers are D3595-075-395 and D3595-075-450

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22) Update Estimates to:

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- **NOTE:** Drawings D206-667-XXX and D407-667-XXX will be updated. Attach DS1 9415 as temporary solution

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